

(4) Content:

1. Organization and administration of school nurse services including the appraisal of the health needs of children and youth.
2. School-community relationships and resources/coordination of school and community resources to serve the health needs of children and youth.
3. Knowledge and understanding of the health needs of exceptional children.
4. Health education.

c. *Other.* Hold a license as a registered nurse issued by the board of nursing.

NOTE: Although the school nurse endorsement does not authorize general classroom teaching, it does authorize the holder to teach health at all grade levels.

14.20(12) Teacher—prekindergarten through grade three.

a. *Authorization.* The holder of this endorsement is authorized to teach children from birth through grade three.

b. *Program requirements.*

- (1) Degree—baccalaureate.
- (2) Completion of an approved human relations program.
- (3) Completion of the professional education core. See 14.19(3).
- (4) Content:
 1. Child growth and development with emphasis on cognitive, language, physical, social, and emotional development, both typical and atypical, for infants and toddlers, preprimary, and primary school children (grades one through three), unless combined as part of the professional education core. See 14.19(3) of the licensure rules for the professional core.
 2. Historical, philosophical, and social foundations of early childhood education.
 3. Developmentally appropriate curriculum with emphasis on integrated multicultural and non-sexist content including language, mathematics, science, social studies, health, safety, nutrition, visual and expressive arts, social skills, higher-thinking skills, and developmentally appropriate methodology, including adaptations for individual needs, for infants and toddlers, preprimary, and primary school children.
 4. Characteristics of play and creativity, and their contributions to the cognitive, language, physical, social and emotional development and learning of infants and toddlers, preprimary, and primary school children.
 5. Classroom organization and individual interactions to create positive learning environments for infants and toddlers, preprimary, and primary school children based on child development theory emphasizing guidance techniques.
 6. Observation and application of developmentally appropriate assessments for infants and toddlers, preprimary, and primary school children recognizing, referring, and making adaptations for children who are at risk or who have exceptional educational needs and talents.
 7. Home-school-community relationships and interactions designed to promote and support parent, family and community involvement, and interagency collaboration.
 8. Family systems, cultural diversity, and factors which place families at risk.
 9. Child and family health and nutrition.
 10. Advocacy, legislation, and public policy as they affect children and families.
 11. Administration of child care programs to include staff and program development and supervision and evaluation of support staff.

12. Pre-student teaching field experience with three age levels in infant and toddler, preprimary, and primary programs, with no less than 100 clock hours, and in different settings, such as rural and urban, socioeconomic status, cultural diversity, program types, and program sponsorship.

(5) Student teaching experiences with two different age levels, one before kindergarten and one from kindergarten through grade three.

14.20(13) Talented and gifted teacher-coordinator.

a. Authorization. The holder of this endorsement is authorized to serve as a teacher or a coordinator of programs for the gifted and talented from the prekindergarten level through grade twelve. This authorization does not permit general classroom teaching at any level except that level or area for which the holder is eligible or holds the specific endorsement.

b. Program requirements—content. Completion of 12 graduate semester hours of coursework in the area of the gifted and talented to include the following:

- (1) Psychology of the gifted.
- (2) Programming for the gifted.
- (3) Administration and supervision of gifted programs.
- (4) Practicum experience in gifted programs.

NOTE: Teachers in specific subject areas will not be required to hold this endorsement if they teach gifted students in their respective endorsement areas.

Practitioners licensed and employed after August 31, 1995, and assigned as teachers or coordinators in programs for the talented and gifted will be required to hold this endorsement.

14.20(14) American Sign Language endorsement.

a. Authorization. The holder of this endorsement is authorized to teach American Sign Language in kindergarten and grades one through twelve.

b. Program requirements.

- (1) Degree—baccalaureate.
- (2) Completion of an approved human relations program.
- (3) Completion of the professional education core.
- (4) Content. Completion of 18 semester hours of coursework in American Sign Language to include the following:

1. Second language acquisition.
2. Sociology of the deaf community.
3. Linguistic structure of American Sign Language.
4. Language teaching methodology specific to American Sign Language.
5. Teaching the culture of deaf people.
6. Assessment of students in an American Sign Language program.

c. Other. Be the holder of or eligible for one other teaching endorsement listed in rule 14.18(272).

14.20(15) Middle school endorsement.

a. Authorization. The holder of this endorsement is authorized to teach all subjects in grades five through eight with the exception of art, industrial arts, music, reading, physical education and special education.

b. Program requirements.

(1) Be the holder of a currently valid Iowa teacher's license with either the general elementary endorsement or one of the subject matter secondary level endorsements set out in subrules 14.18(1) or 16.1(1) to 16.1(5).

(2) Required coursework.

1. Three semester hours of coursework in the growth and development of the middle school age child, specifically addressing the emotional, physical and mental characteristics and needs of middle school age children in addition to related studies completed as part of the professional education core in 14.19(3).

2. Three semester hours of coursework in middle school design, instruction, and curriculum including, but not limited to, instruction in interdisciplinary teaming, pedagogy, and methods in addition to related studies completed as part of the professional education core in 14.19(3).

3. Six semester hours of coursework in the social studies to include coursework in American history, world history, and geography.

4. Six semester hours in mathematics to include coursework in algebra.

5. Six semester hours in science to include coursework in life science and physical science.

6. Six semester hours in language arts to include coursework in grammar, composition, and speech.

14.20(16) *Teacher—prekindergarten through grade three, including special education.*

a. Authorization. The holder of this endorsement is authorized to teach children from birth through grade three.

b. Program requirements.

(1) Degree—baccalaureate.

(2) Completion of an approved human relations program.

(3) Completion of the professional education core. See 14.19(3).

c. Content.

(1) Child growth and development.

1. Understand the nature of child growth and development for infants and toddlers (birth through age 2), preprimary (age 3 through age 5) and primary school children (age 6 through age 8), both typical and atypical, in areas of cognition, language development, physical motor, social-emotional, aesthetics, and adaptive behavior.

2. Understand individual differences in development and learning including risk factors, developmental variations and developmental patterns of specific disabilities and special abilities.

3. Recognize that children are best understood in the contexts of family, culture and society and that cultural and linguistic diversity influences development and learning.

(2) Developmentally appropriate learning environment and curriculum implementation.

1. Establish learning environments with social support, from the teacher and from other students, for all children to meet their optimal potential, with a climate characterized by mutual respect, encouraging and valuing the efforts of all regardless of proficiency.

2. Appropriately use informal and formal assessment to monitor development of children and to plan and evaluate curriculum and teaching practices to meet individual needs of children and families.

3. Plan, implement, and continuously evaluate developmentally and individually appropriate curriculum goals, content, and teaching practices for infants, toddlers, preprimary and primary children based on the needs and interests of individual children, their families and community.

4. Use both child-initiated and teacher-directed instructional methods, including strategies such as small and large group projects, unstructured and structured play, systematic instruction, group discussion and cooperative decision making.

5. Develop and implement integrated learning experiences for home-, center- and school-based environments for infants, toddlers, preprimary and primary children:

- Develop and implement integrated learning experiences that facilitate cognition, communication, social and physical development of infants and toddlers within the context of parent-child and caregiver-child relationships.
- Develop and implement learning experiences for preprimary and primary children with focus on multicultural and nonsexist content that includes development of responsibility, aesthetic and artistic development, physical development and well-being, cognitive development, and emotional and social development.
- Develop and implement learning experiences for infants, toddlers, preprimary, and primary children with a focus on language, mathematics, science, social studies, visual and expressive arts, social skills, higher-thinking skills, and developmentally appropriate methodology.
- Develop adaptations and accommodations for infants, toddlers, preprimary, and primary-aged children to meet their individual needs.

6. Adapt materials, equipment, the environment, programs and use of human resources to meet social, cognitive, physical motor, communication, and medical needs of children and diverse learning needs.

(3) Health, safety and nutrition.

1. Design and implement physically and psychologically safe and healthy indoor and outdoor environments to promote development and learning.

2. Promote nutritional practices that support cognitive, social, cultural and physical development of young children.

3. Implement appropriate appraisal and management of health concerns of young children including procedures for children with special health care needs.

4. Recognize signs of emotional distress, physical and mental abuse and neglect in young children and understand mandatory reporting procedures.

5. Demonstrate proficiency in infant-child cardiopulmonary resuscitation, emergency procedures and first aid.

(4) Family and community collaboration.

1. Apply theories and knowledge of dynamic roles and relationships within and between families, schools, and communities.

2. Assist families in identifying resources, priorities, and concerns in relation to the child's development.

3. Link families, based on identified needs, priorities and concerns, with a variety of resources.

4. Use communication, problem-solving and help-giving skills in collaboration with families and other professionals to support the development, learning and well-being of young children.

5. Participate as an effective member of a team with other professionals and families to develop and implement learning plans and environments for young children.

(5) Professionalism.

1. Understand legislation and public policy that affect all young children, with and without disabilities, and their families.

2. Understand legal aspects, historical, philosophical, and social foundations of early childhood education and special education.

3. Understand principles of administration, organization and operation of programs for children aged birth to 8 and their families, including staff and program development, supervision and evaluation of staff, and continuing improvement of programs and services.

4. Identify current trends and issues of the profession to inform and improve practices and advocate for quality programs for young children and their families.

5. Adhere to professional and ethical codes.

6. Engage in reflective inquiry and demonstration of professional self-knowledge.

(6) Pre-student teaching field experiences. Complete 100 clock hours of pre-student teaching field experience with three age levels in infant and toddler, preprimary and primary programs and in different settings, such as rural and urban, encompassing differing socioeconomic status, ability levels, cultural and linguistic diversity and program types and sponsorship.

(7) Student teaching. Complete a supervised student teaching experience of at least 12 weeks' total in at least two different settings in two of three age levels: infant and toddler, preprimary, primary and with children with and without disabilities.

282—14.21(272) Minimum content requirements for teaching endorsements.

14.21(1) Agriculture. 7-12. Completion of 24 semester hours in agriculture to include coursework in agronomy, animal science, agricultural mechanics, and agricultural economics.

14.21(2) Art. K-6 or 7-12. Completion of 24 semester hours in art to include coursework in art history, studio art, and two- and three-dimensional art.

14.21(3) Business—general. 7-12. Completion of 24 semester hours in business to include 6 semester hours in accounting, 6 semester hours in business law, and coursework in computer applications, and coursework in consumer studies.

14.21(4) Business—office. 7-12. Completion of 24 semester hours in business to include advanced coursework in typewriting, computer applications or word processing, and office management.

14.21(5) Business—marketing/management. 7-12. Completion of 24 semester hours in business to include a minimum of 6 semester hours each in marketing, management, and economics.

14.21(6) Driver and safety education. 7-12. Completion of 15 semester hours in driver and safety education to include coursework in accident prevention, vehicle safety, and behind-the-wheel driving.

14.21(7) English/language arts.

a. K-6. Completion of 24 semester hours in English and language arts to include coursework in oral communication, written communication, language development, reading, children's literature, creative drama or oral interpretation of literature, and American literature.

b. 7-12. Completion of 24 semester hours in English to include coursework in oral communication, written communication, language development, reading, American literature, English literature and adolescent literature.

14.21(8) Foreign language. K-6 and 7-12. Completion of 24 semester hours in each foreign language.

14.21(9) Health. K-6 and 7-12. Completion of 24 semester hours in health to include coursework in public or community health, consumer health, substance abuse, family life education, mental/emotional health, and human nutrition.

14.21(10) Home economics—general. 7-12. Completion of 24 semester hours in home economics to include coursework in family life development, clothing and textiles, housing, and foods and nutrition.

14.21(11) Industrial technology. 7-12. Completion of 24 semester hours in industrial technology to include coursework in manufacturing, construction, energy and power, graphic communications and transportation. The coursework is to include at least 6 semester hours in three different areas.

14.21(12) Journalism. 7-12. Completion of 15 semester hours in journalism to include coursework in writing, editing, production and visual communications.

14.21(13) Mathematics.

a. K-6. Completion of 24 semester hours in mathematics to include coursework in algebra, geometry, number theory, measurement, computer programming, and probability and statistics.

b. 7-12. Completion of 24 semester hours in mathematics to include coursework in algebra, geometry, calculus, computer programming, and probability and statistics.

14.21(14) Music.

a. K-6. Completion of 24 semester hours in music to include coursework in music theory (at least two courses), music history, and applied music.

b. 7-12. Completion of 24 semester hours in music to include coursework in music theory (at least two courses), music history (at least two courses), applied music, and conducting.

14.21(15) Physical education.

a. K-6. Completion of 24 semester hours in physical education to include coursework in human anatomy, human physiology, movement education, adapted physical education, physical education in the elementary school, human growth and development of children related to physical education, and first aid and emergency care.

b. 7-12. Completion of 24 semester hours in physical education to include coursework in human anatomy, kinesiology, human physiology, human growth and development related to maturational and motor learning, adapted physical education, curriculum and administration of physical education, assessment processes in physical education, and first aid and emergency care.

14.21(16) Reading.

a. K-6. Completion of 20 semester hours in reading to include at least 12 semester hours specifically in reading by course title which must include foundations in methods and materials for teaching reading in the elementary classroom, corrective reading, remedial reading, a supervised tutoring experience, and at least 8 hours of coursework from oral and written communication, language development, children's literature, and tests and measurement.

b. 7-12. Completion of 20 semester hours in reading to include at least 12 semester hours specifically in reading by course title which must include foundations in methods and materials of teaching reading in the secondary classroom, corrective reading, reading in content areas, remedial reading, a supervised tutoring experience, and at least 8 hours of coursework from oral and written communication, the structure of language, adolescent literature, and tests and measurement.

14.21(17) Science.

a. *Science—basic.* K-6. Completion of at least 24 semester hours in science to include 12 hours in physical sciences, 6 hours in biology, and 6 hours in earth/space sciences.

(1) Competencies.

1. Understand the nature of scientific inquiry, its central role in science, and how to use the skills and processes of scientific inquiry.

2. Understand the fundamental facts and concepts in major science disciplines.

3. Be able to make conceptual connections within and across science disciplines, as well as to mathematics, technology, and other school subjects.

4. Be able to use scientific understanding when dealing with personal and societal issues.

(2) Reserved.

b. *Biological.* 7-12. Completion of 24 semester hours in biological science or 30 semester hours in the broad area of science to include 15 semester hours in biological science.

c. *Chemistry.* 7-12. Completion of 24 semester hours in chemistry or 30 semester hours in the broad area of science to include 15 semester hours in chemistry.

d. Earth science. 7-12. Completion of 24 semester hours in earth science or 30 semester hours in the broad area of science to include 15 semester hours in earth science.

e. General science. 7-12. Completion of 24 semester hours in science to include coursework in biological science, chemistry, and physics.

f. Physical science. 7-12. Completion of 24 semester hours in physical sciences to include coursework in physics, chemistry, and earth science.

g. Physics. 7-12. Completion of 24 semester hours in physics or 30 semester hours in the broad area of science to include 15 semester hours in physics.

h. All science I. Grades 5-8. The holder of this endorsement must also hold the middle school endorsement listed under 14.20(15).

(1) Required coursework. Completion of at least 24 semester hours in science to include 6 hours in chemistry, 6 hours in physics or physical sciences, 6 hours in biology, and 6 hours in the earth/space sciences.

(2) Competencies.

1. Understand the nature of scientific inquiry, its central role in science, and how to use the skills and processes of scientific inquiry.

2. Understand the fundamental facts and concepts in major science disciplines.

3. Be able to make conceptual connections within and across science disciplines, as well as to mathematics, technology, and other school subjects.

4. Be able to use scientific understanding when dealing with personal and societal issues.

i. All science II. Grades 9-12.

(1) Required coursework.

1. Completion of one of the following endorsement areas listed under 14.21(17): biological 7-12 or chemistry 7-12 or earth science 7-12 or physics 7-12.

2. Completion of at least 12 hours in each of the other three endorsement areas.

(2) Competencies.

1. Understand the nature of scientific inquiry, its central role in science, and how to use the skills and processes of scientific inquiry.

2. Understand the fundamental facts and concepts in major science disciplines.

3. Be able to make conceptual connections within and across science disciplines, as well as to mathematics, technology, and other school subjects.

4. Be able to use scientific understanding when dealing with personal and societal issues.

14.21(18) Social sciences.

a. American government. 7-12. Completion of 24 semester hours in American government or 30 semester hours in the broad area of social sciences to include 15 semester hours in American government.

b. American history. 7-12. Completion of 24 semester hours in American history or 30 semester hours in the broad area of the social sciences to include 15 semester hours in American history.

c. Anthropology. 7-12. Completion of 24 semester hours in anthropology or 30 semester hours in the broad area of social sciences to include 15 semester hours in anthropology.

d. Economics. 7-12. Completion of 24 semester hours in economics or 30 semester hours in the broad area of the social sciences to include 15 semester hours in economics, or 30 semester hours in the broad area of business to include 15 semester hours in economics.

e. Geography. 7-12. Completion of 24 semester hours in geography or 30 semester hours in the broad area of the social sciences to include 15 semester hours in geography.

f. History. K-6. Completion of 24 semester hours in history to include at least 9 semester hours in American history and 9 semester hours in world history.

g. Psychology. 7-12. Completion of 24 semester hours in psychology or 30 semester hours in the broad area of social sciences to include 15 semester hours in psychology.

h. Social studies. K-6. Completion of 24 semester hours in social studies, to include coursework from at least three of these areas: history, sociology, economics, American government, psychology and geography.

i. Sociology. 7-12. Completion of 24 semester hours in sociology or 30 semester hours in the broad area of social sciences to include 15 semester hours in sociology.

j. World history. 7-12. Completion of 24 semester hours in world history or 30 semester hours in the broad area of social sciences to include 15 semester hours in world history.

k. All social sciences. 7-12. Effective July 1, 2000, completion of 51 semester hours in the social sciences to include 9 semester hours in each of American and world history, 9 semester hours in government, 6 semester hours in sociology, 6 semester hours in psychology other than educational psychology, 6 semester hours in geography, and 6 semester hours in economics.

14.21(19) *Speech communication/theatre.*

a. K-6. Completion of 20 semester hours in speech communication/theatre to include coursework in speech communication, creative drama or theatre, and oral interpretation.

b. 7-12. Completion of 24 semester hours in speech communication/theatre to include coursework in speech communication, oral interpretation, creative drama or theatre, argumentation and debate, and mass media communication.

This rule is intended to implement Iowa Code chapter 272.

282—14.22(272) Area and grade levels of administrative endorsements.

<u>Endorsements</u>	<u>Grade Levels</u>			
	<u>Pk-6*</u>	<u>7-12**</u>	<u>Pk-12</u>	<u>AEA</u>
1. Principal	X	X		
2. Superintendent			X	
3. Area Education Agency				X

*The holder of this endorsement may be assigned by local school board action to fulfill this assignment at the 7-8 grade level.

**The holder of this endorsement may be assigned by local school board action to fulfill this assignment at the 5-6 grade level.

282—14.23(272) Administrative endorsements.

14.23(1) Elementary principal.

a. Authorization. The holder of this endorsement is authorized to serve as a principal of programs serving children from birth through grade six.

b. Program requirements.

- (1) Degree—master’s.
- (2) Content: Completion of a sequence of courses and experiences which may have been a part of, or in addition to, the degree requirements.
 - 1. Knowledge of early childhood, elementary, and early adolescent level administration, supervision, and evaluation.
 - 2. Knowledge and skill related to early childhood, elementary, and early adolescent level curriculum development.
 - 3. Knowledge of child growth and development from birth through early adolescence and developmentally appropriate strategies and practices of early childhood, elementary, and early adolescence, to include an observation practicum.
 - 4. Knowledge of family support systems, factors which place families at risk, child care issues, and home-school community relationships and interactions designed to promote parent education, family involvement, and interagency collaboration.
 - 5. Knowledge of school law and legislative and public policy issues affecting children and families.
 - 6. Planned field experiences in early childhood and elementary or early adolescent school administration.
 - 7. Evaluator approval component.
- (3) Competencies: Completion of a sequence of courses and experiences which may have been a part of, or in addition to, the degree requirements. A school administrator is an educational leader who promotes the success of all students by accomplishing the following competencies.
 - 1. Facilitates the development, articulation, implementation, and stewardship of a vision of learning that is shared and supported by the school community.
 - 2. Advocates, nurtures, and sustains a school culture and instructional program conducive to student learning and staff professional growth.
 - 3. Ensures management of the organization, operations, and resources for a safe, efficient, and effective learning environment.
 - 4. Collaborates with families and community members, responds to diverse community interests and needs, and mobilizes community resources.
 - 5. Acts with integrity, fairness, and in an ethical manner.
 - 6. Understands, responds to, and influences the larger political, social, economic, legal, and cultural context.

c. *Other.*

- (1) Have had three years of teaching experience at the early childhood through grade six level.
- (2) Graduates from institutions in other states who are seeking initial Iowa licensure and the elementary principal's endorsement must meet the requirements for the educational license in addition to the experience requirements.

14.23(2) *Secondary principal.*

a. *Authorization.* The holder of this endorsement is authorized to serve as a principal in grades seven through twelve.

b. *Program requirements.*

- (1) Degree—master's.
- (2) Content: Completion of a sequence of courses and experiences which may have been a part of, or in addition to, the degree requirements.
 1. Knowledge of early adolescent and secondary level administration, supervision, and evaluation.
 2. Knowledge and skill related to early adolescent and secondary level curriculum development.
 3. Knowledge of human growth and development from early adolescence through early adult development, to include an observation practicum.
 4. Knowledge of family support systems, factors which place families at risk, child care issues, and home-school community relationships and interactions designed to promote parent education, family involvement, and interagency collaboration.
 5. Knowledge of school law and legislative and public policy issues affecting children and families.
 6. Planned field experiences in early adolescence or early adult school administration.
 7. Evaluator approval component.